Set	Items	Description
S1	1032374	COMPAR??? ? OR COMPARAT? OR COMPARISON? ? OR MATCH??? ? OR MISMATCH? OR NONCOINCIDEN? OR RECONCIL? OR NONCORRESPOND? OR - INCONSISTEN?
S2	544218	CONSISTEN??? ? OR (NON OR UN)()CORRESPOND? OR UNCONSISTEN? OR CONTRAST? OR ACCORD?? OR ACCORD OR DISAGREE? OR AGREE? OR - DISCORD?
S3	684402	INTERSECT? OR COINCID? OR CO()INCIDEN? OR EQUIVALEN?
S4	303445	EVALUAT?
S5	1249859	CONTENT? ? OR ECONTENT? ? OR TEXT OR TEXTDATA OR TEXTUAL OR TEXTFILE? OR DATAFLOW? OR MESSAGE? ? OR OBJECT? ? OR FILE OR FILES
S6	803165	PACKET? ? OR RECORD? ? OR ARTICLE? OR DATAFILE? OR DATASET? OR TEXTMESSAGE? OR COMPUTERFILE? OR DOCUMENT? ?
S7	364260	(S5:S6 OR DATA)(5N)(TRANSMIT? OR TRANSMIS? OR SENT OR SEND- ??? ? OR RECEIV? OR XFER? OR TRANSFER? OR EXCHANG? OR FEED??? ? OR FED)
S8	162571	(S5:S6 OR DATA)(5N)(UPLOAD? OR DOWNLOAD? OR LOAD??? ? OR S- HIPP??? ? OR SHIP????? ? OR STREAM? OR DISPATCH? OR RECEIPT? - OR CONVEY?)
S9	319524	(S5:S6 OR DATA)(5N)(RECEIV??? ? OR TRANSFERR? OR TRANSFER?- ?? ? OR DELIVER? OR MIGRAT? OR DISTRIBUT? OR IMPORT?? ? OR IM- PORTING)
S10	52458	(S5:S6 OR DATA)(5N)(IMPORTATION? OR EXPORT? OR ACQUISIT? OR ACQUIR?)
S11	829122	CACHE? ? OR CACHING OR STORE? ? OR STORING OR STORAGE OR S- UBCACH? OR MICROCACH? OR MEMOR? OR ARCHIV? OR PRESTOR?
S12	590171	ORIGINAL
S13	384064	RISK? ? OR SECURITY OR IDS OR INTRUS? OR INTRUD? OR ATTACK? OR DOS OR (DENY? OR DENI??? ?)(1N)SERVICE? OR SPOOF?
S14	175936	PROBE? ? OR PROBING
S15	215783	HIJACK? OR HIGHJACK? OR (HI OR HIGH)()JACK??? ? OR COUNTER- FEIT? OR COMPROMIS? OR FLOOD? OR EXPLOIT? OR GHOST? OR FORGER? OR CORRUPT?
S16	352507	SPAM? ? OR SPAMM? OR THREAT? OR HOSTIL? OR VULNERAB? OR HA- CK? OR CRACK? OR UNAUTHORI? OR CYBERATTACK? OR TROJAN OR INFI- LT? OR PENETRAT?
S17	3984	MALICIOUS?
S18	148361	S7:S10(10N)S11:S12
S19	209899	S1:S4(5N)(DATA OR S5:S6)
S20	11575	S18(25N)S19
S21	491	S20(25N)S13:S17
S22	8446	IC='H04L-009'
S23	36	S21 AND S22
S24	17	S23 AND AC=US/PR AND AY=(1963:2001)/PR
S25	17	S23 AND AC=US AND AY=1963:2001
S26	17	S23 AND AC=US AND AY=(1963:2001)/PR
S27	12	S23 AND PY=1963:2000
S28	20	S24:S27
S29	16846	S19(5N)(MODIFY? OR MODIFIE? OR MODIFICAT? OR CHANG??? ? OR MANIPULAT? OR VARIAT? OR DEVIAT? OR DEVIANT? OR DIFFEREN? OR - DIFFER??? ?)
S30	657	S19(5N)(DIVERG? OR ALTER?? ? OR ALTERR? OR ALTERING OR ALT- ERATION? ?)
S31	758	S19(5N)(SPOOF? OR HACK? OR CRACK? OR TAMPER? OR VANDAL? OR FALSIF? OR ADULTERAT? OR MEDDL? OR IRREGULAR? OR CORRUPT?)
S32	3351	S19(5N)S13:S17
S33	670	S29:S32(25N)S18
S34	25	S33 AND S22
S35	18	S34 NOT S28

```
S36         7   S35 AND AC=US/PR AND AY=(1963:2001)/PR
S37         7   S35 AND AC=US AND AY=1963:2001
S38         7   S35 AND AC=US AND AY=(1963:2001)/PR
S39         6   S35 AND PY=1963:2000
S40        10   S36:S39
S41      1802   IC='H04K'
S42         6   S41 AND (S21 OR S33)
S43         4   S42 NOT (S40 OR S28)
?
```

```
Set     Items   Description
S1      1290813 COMPAR??? ? OR COMPARAT? OR COMPARISON? ? OR MATCH??? ? OR
                MISMATCH? OR NONCOINCIDEN? OR RECONCIL? OR NONCORRESPOND? OR -
                INCONSISTEN?
S2      370848  CONSISTEN??? ? OR (NON OR UN)()CORRESPOND? OR UNCONSISTEN?
                OR CONTRAST? OR ACCORD?? OR ACCORD OR DISAGREE? OR AGREE? OR -
                DISCORD?
S3      497776  INTERSECT? OR COINCID? OR CO()INCIDEN? OR EQUIVALEN?
S4      202375  EVALUAT?
S5      2422694 CONTENT? ? OR ECONTENT? ? OR TEXT OR TEXTDATA OR TEXTUAL OR
                TEXTFILE? OR DATAFLOW? OR MESSAGE? ? OR OBJECT? ? OR FILE OR
                FILES
S6      1026267 PACKET? ? OR RECORD? ? OR ARTICLE? OR DATAFILE? OR DATASET?
                OR TEXTMESSAGE? OR COMPUTERFILE? OR DOCUMENT? ?
S7      835485  (S5:S6 OR DATA)(5N)(TRANSMIT? OR TRANSMIS? OR SENT OR SEND-
                ??? ? OR RECEIV? OR XFER? OR TRANSFER? OR EXCHANG? OR FEED???
                ? OR FED)
S8      148998  (S5:S6 OR DATA)(5N)(UPLOAD? OR DOWNLOAD? OR LOAD??? ? OR S-
                HIPP??? ? OR SHIP????? ? OR STREAM? OR DISPATCH? OR RECEIPT? -
                OR CONVEY?)
S9      567621  (S5:S6 OR DATA)(5N)(RECEIV??? ? OR TRANSFERR? OR TRANSFER?-
                ?? ? OR DELIVER? OR MIGRAT? OR DISTRIBUT? OR IMPORT?? ? OR IM-
                PORTING)
S10     58183   (S5:S6 OR DATA)(5N)(IMPORTATION? OR EXPORT? OR ACQUISIT? OR
                ACQUIR?)
S11     2685197 CACHE? ? OR CACHING OR STORE? ? OR STORING OR STORAGE OR S-
                UBCACH? OR MICROCACH? OR MEMOR? OR ARCHIV? OR PRESTOR?
S12     275294  ORIGINAL
S13     283853  RISK? ? OR SECURITY OR IDS OR INTRUS? OR INTRUD? OR ATTACK?
                OR DOS OR (DENY? OR DENI??? ?)(1N)SERVICE? OR SPOOF?
S14     170911  PROBE? ? OR PROBING
S15     75418   HIJACK? OR HIGHJACK? OR (HI OR HIGH)()JACK??? ? OR COUNTER-
                FEIT? OR COMPROMIS? OR FLOOD? OR EXPLOIT? OR GHOST? OR FORGER?
                OR CORRUPT?
S16     515971  SPAM? ? OR SPAMM? OR THREAT? OR HOSTIL? OR VULNERAB? OR HA-
                CK? OR CRACK? OR UNAUTHORI? OR CYBERATTACK? OR TROJAN OR INFI-
                LT? OR PENETRAT?
S17     1631    MALICIOUS?
S18     230702  S7:S10(10N)S11:S12
S19     184371  S1:S4(5N)(DATA OR S5:S6)
S20     9570    S19(5N)(MODIFY? OR MODIFIE? OR MODIFICAT? OR CHANG??? ? OR
                MANIPULAT? OR VARIAT? OR DEVIAT? OR DEVIANT? OR DIFFEREN? OR -
                DIFFER??? ?)
S21     365     S19(5N)(DIVERG? OR ALTER?? ? OR ALTERR? OR ALTERING OR ALT-
                ERATION? ?)
S22     238     S19(5N)(SPOOF? OR HACK? OR CRACK? OR TAMPER? OR VANDAL? OR
                FALSIF? OR ADULTERAT? OR MEDDL? OR IRREGULAR? OR FORG??? ?)
S23     1464    S19(5N)S13:S17
S24     21517   S18 AND S19
S25     1723    S24 AND S13:S17
S26     43893   IC='H04L-009'
S27     11495   IC='H04K'
S28     2746    MC='T01-J11A1'
S29     6354    MC='T01-N02B2B'
S30     21113   MC='W01-A06A'
S31     327     S25 AND S26:S30
S32     53      S31 AND S20:S23
S33     1284    S20:S23 AND S18
S34     65      S33 AND S26:S27
S35     68      S32 OR S34
```

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S36        27    S35 AND AC=US/PR AND AY=(1963:2001)/PR
S37        32    S35 AND AC=US AND AY=1963:2001
S38        32    S35 AND AC=US AND AY=(1963:2001)/PR
S39        39    S35 AND PY=1963:2001
S40        43    S36:S39
?
```

0014411981 - Drawing available
WPI ACC NO: 2004-601834/
XRPX ACC No: N2004-475829
Computer readable medium storing instructions for comparing communication stream data in retrieved cache table entry with stream data of network packet , to apply security measures to packet
Patent Assignee: MICROSOFT CORP (MICT)
Inventor: YE C
Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
US 6772348	B1	20040803	US 2000560038	A	20000427	200458	B

Priority Applications (no., kind, date): US 2000560038 A 20000427

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 6772348	B1	EN	13	6	

   Alerting Abstract US B1
   NOVELTY - An index is derived from a communication stream data with source internet protocol (IP), destination IP addresses, etc., of a network packet . An entry with a communication stream and security association data , related to the index, is retrieved from a cache table. The stream data of the entry and that of packet are compared , to apply security measures to packet based on security data in entry, when a match is found.
   DESCRIPTION - An INDEPENDENT CLAIM is also included for method of retrieving security data.
   USE - Computer readable medium storing instructions for retrieving security data such as security association (SA) data of internet protocol security (IPSec) for protecting network communications e.g. for internet, intranet, local area network (LAN), wide area network (WAN) in office.
   ADVANTAGE - The security data needed for secure the delivery of packets are retrieved quickly and reliably.
   DESCRIPTION OF DRAWINGS - DESCRIPTION OF DRAWING - The figure shows a flowchart explaining the process of retrieving security data for communication packet using the cache table.

Title Terms/Index Terms/Additional Words: COMPUTER; READ; MEDIUM; STORAGE; INSTRUCTION; COMPARE; COMMUNICATE; STREAM; DATA; RETRIEVAL; CACHE; TABLE; ENTER; NETWORK; PACKET; APPLY; SECURE; MEASURE

Class Codes
International Classification (Main): G06F-011/30
 (Additional/Secondary): G06F-012/14, H04L-009/32

File Segment: EPI;
DWPI Class: T01; W01
Manual Codes (EPI/S-X): T01-H03A; T01-N02A1; T01-N02B1A; T01-S03; W01-A03B; W01-A05B; W01-A06F2A
Computer readable medium storing instructions for comparing communication stream data in retrieved cache table entry with stream data of network packet , to apply security measures to packet

Original Titles:
Method and system for retrieving security information for secured transmission of network communication streams

File 696:DIALOG Telecom. Newsletters 1995-2006/Aug 07
         (c) 2006 Dialog
File 15:ABI/Inform(R) 1971-2006/Aug 08
         (c) 2006 ProQuest Info&Learning
File 98:General Sci Abs 1984-2005/Jan
         (c) 2006 The HW Wilson Co.
File 484:Periodical Abs Plustext 1986-2006/Aug W1
         (c) 2006 ProQuest
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         (c) 1999 PR Newswire Association Inc
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         (c) 2006 PR Newswire Association Inc
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         (c) 2006 ProQuest Info&Learning
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         (c) 1999 Business Wire
File 610:Business Wire 1999-2006/Aug 08
         (c) 2006 Business Wire.
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         (c) 2006 The Gale group
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         (c)2006 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
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         (c) 2006 McGraw-Hill Co. Inc
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         (c) 2006 San Jose Mercury News
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         (c) 2006 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2006/Aug 07
         (c) 2006 The Gale Group
File 647:CMP Computer Fulltext 1988-2006/Sep W3
         (c) 2006 CMP Media, LLC
File 674:Computer News Fulltext 1989-2006/Jul W5
         (c) 2006 IDG Communications

Set   Items   Description
S1   8139889   COMPAR??? ? OR COMPARAT? OR COMPARISON? ? OR MATCH??? ? OR
                 MISMATCH? OR NONCOINCIDEN? OR RECONCIL? OR NONCORRESPOND? OR -
                 INCONSISTEN?
S2   11438164   CONSISTEN??? ? OR (NON OR UN)()CORRESPOND? OR UNCONSISTEN?
                 OR CONTRAST? OR ACCORD?? OR ACCORD OR DISAGREE? OR AGREE? OR -
                 DISCORD?
S3   2365707   INTERSECT? OR COINCID? OR CO()INCIDEN? OR EQUIVALEN?
S4   3483400   EVALUAT?
S5   8635857   CONTENT? ? OR ECONTENT? ? OR TEXT OR TEXTDATA OR TEXTUAL OR
                 TEXTFILE? OR DATAFLOW? OR MESSAGE? ? OR OBJECT? ? OR FILE OR
                 FILES
S6   14315745   PACKET? ? OR RECORD? ? OR ARTICLE? OR DATAFILE? OR DATASET?
                 OR TEXTMESSAGE? OR COMPUTERFILE? OR DOCUMENT? ?
S7   2143245   (S5:S6 OR DATA)(5N)(TRANSMIT? OR TRANSMIS? OR SENT OR SEND-
                 ??? ? OR RECEIV? OR XFER? OR TRANSFER? OR EXCHANG? OR FEED???
                 ? OR FED)

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S8      878778   (S5:S6 OR DATA)(5N)(UPLOAD? OR DOWNLOAD? OR LOAD??? ? OR S-
                 HIPP??? ? OR SHIP????? ? OR STREAM? OR DISPATCH? OR RECEIPT? -
                 OR CONVEY?)
S9     2310188   (S5:S6 OR DATA)(5N)(RECEIV??? ? OR TRANSFERR? OR TRANSFER?-
                 ?? ? OR DELIVER? OR MIGRAT? OR DISTRIBUT? OR IMPORT?? ? OR IM-
                 PORTING)
S10     475405   (S5:S6 OR DATA)(5N)(IMPORTATION? OR EXPORT? OR ACQUISIT? OR
                 ACQUIR?)
S11    8862526   CACHE? ? OR CACHING OR STORE? ? OR STORING OR STORAGE OR S-
                 UBCACH? OR MICROCACH? OR MEMOR? OR ARCHIV? OR PRESTOR?
S12    2353586   ORIGINAL
S13   12083499   RISK? ? OR SECURITY OR IDS OR INTRUS? OR INTRUD? OR ATTACK?
                 OR DOS OR (DENY? OR DENI??? ?)(1N)SERVICE? OR SPOOF?
S14     402211   PROBE? ? OR PROBING
S15    2081805   HIJACK? OR HIGHJACK? OR (HI OR HIGH)()JACK??? ? OR COUNTER-
                 FEIT? OR COMPROMIS? OR FLOOD? OR EXPLOIT? OR GHOST? OR FORGER?
                 OR CORRUPT?
S16    4071190   SPAM? ? OR SPAMM? OR THREAT? OR HOSTIL? OR VULNERAB? OR HA-
                 CK? OR CRACK? OR UNAUTHORI? OR CYBERATTACK? OR TROJAN OR INFI-
                 LT? OR PENETRAT?
S17      92108   MALICIOUS?
S18     284123   S7:S10(10N)S11:S12
S19    1001360   S1:S4(5N)(DATA OR S5:S6)
S20      32694   S19(5N)(MODIFY? OR MODIFIE? OR MODIFICAT? OR CHANG??? ? OR
                 MANIPULAT? OR VARIAT? OR DEVIAT? OR DEVIANT? OR DIFFEREN? OR -
                 DIFFER??? ?)
S21        904   S19(5N)(DIVERG? OR ALTER?? ? OR ALTERR? OR ALTERING OR ALT-
                 ERATION? ?)
S22       1416   S19(5N)(SPOOF? OR HACK? OR CRACK? OR TAMPER? OR VANDAL? OR
                 FALSIF? OR ADULTERAT? OR MEDDL? OR IRREGULAR? OR FORG??? ?)
S23      23870   S19(5N)S13:S17
S24       6339   S18(S)S19
S25        607   S24(S)S13:S17
S26        103   S25(S)S20:S23
S27        238   S20:S23(S)S18
S28        161   S20:S23(15N)S18
S29         40   S26/2002:2006
S30         63   S26 NOT S29
S31         39   RD   (unique items)
S32         78   S27/2002:2006
S33         98   S27 NOT (S32 OR S26)
S34         69   RD   (unique items)
```

34/3,K/53   (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

01955114   SUPPLIER NUMBER: 18449939   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Poking around under the hood: a programmer's view of Windows NT 4.0.
  (Microsoft's operating system) (includes related articles on fibers,
  version control and NT 4.0's performance) (Product Support)(Tutorial)
Pietrek, Matt
Microsoft Systems Journal, v11, n8, p19(16)
August, 1996
DOCUMENT TYPE: Tutorial   ISSN: 0889-9932   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 11254   LINE COUNT: 00916

...   as a message digest in the Crypto API. To verify that the message
wasn't altered , the recipient can rehash the message and compare it
to the message digest that was sent along with the data . How does the
recipient know that the original data wasn't replaced by different data
and a corresponding message digest? Public key encryption...
?